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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/241,798 03/02/99 SCHMIDT

A. C-76,377/365MA

IM62/0621

EXAMINER

M. LAWRENCE OLIVERIO  
WOLF, GREENFIELD & SACKS  
600 ATLANTIC AVENUE  
BOSTON MA 02210

FIGUEROA, J

ART UNIT	PAPER NUMBER
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1772

DATE MAILED:

06/21/00

MLO

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

DOCKETED  
JUN 27 2000

09/21/00

File Folder	<input checked="" type="checkbox"/>	Initials
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06/29/00

## Office Action Summary

Application No. 09/241,598	Applicant(s) Schmidt et al.
Examiner John J. Figueroa	Group Art Unit 1772

Responsive to communication(s) filed on \_\_\_\_\_

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle 1035 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

### Disposition of Claim

Claim(s) 1-20 \_\_\_\_\_ is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

Claim(s) \_\_\_\_\_ is/are allowed.

Claim(s) 1-20 \_\_\_\_\_ is/are rejected.

Claim(s) \_\_\_\_\_ is/are objected to.

Claims \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

### Attachment(s)

Notice of References Cited, PTO-892 ✓ ✓

Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_ 6 ✓ ✓

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948 ✓ ✓

Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

Art Unit: 1772

## **DETAILED ACTION**

### ***Information Disclosure Statement***

1. The information disclosure statement filed on April 7, 2000 is acknowledged.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 4-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are indefinite because claim 4 recites the phrase "a polymer providing at least one of structural and oxygen barrier properties" which is vague and confusing. It is unclear from the claim language as to which specific properties the "structural and oxygen barrier properties" encompass and as to whether or not the recited polymer must provide both of said recited properties.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-6 and 10-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Cochran (US 5021515) in view of Pushee (US 4392804).

Applicant's claimed invention is drawn to a package for enclosing a liquid having a wall which comprises an oxygen scavenger layer of a solid-stated polyamide, said polyamide comprising at least 200 ppm of a transition metal; wherein at least a portion of the wall has a haze of less than 10%. Dependent claims 2-17 recite, *inter alia*, the polyamide to be MXD-6; the transition metal to be cobalt; said scavenging layer to be adjacent to one or more polymer layers, which may be biaxially-oriented and/or in contact with the liquid; the package having two scavenging layers positioned between three polymer layers; the liquid to be beer; the wall having a haze of less than 5%; specified amounts of cobalt within the scavenging layer; and containers comprising said oxygen-scavenging layer.

Cochran discloses a package wall including at least one oxygen-scavenging layer, said scavenging layer comprising oxygen-scavenging compositions of at least one polymer and at least one transition metal catalyst (such as 300 ppm of cobalt) which scavenges oxygen through the metal-catalyzed oxidation of an oxidizable organic compound; wherein said layer has a permeance to oxygen of nearly zero ( $0.3 \text{ cm}^3 \text{mm/ m}^2 \text{atm day}$ ). (See Abstract; Col. 1, lines 35-53 Col. 4, lines 25-33; Col. 5, lines 5-10, 23-41, 58-64; Col. 5, line 66 to Col. 6, line 16; Col. 18, line 36 to Col. 24, line 53)

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Cochran further discloses preferred oxygen-scavenging compositions to comprise MXD6 nylon, which is m-xylene diamine and adipic acid, with cobalt catalysts (Col. 8, line 41 to Col. 9, line 14; Col. 12, line 49-56); whereas the wall may be a rigid sheet, a flexible film, oriented and/or a multilayered laminate of polymer layers, adjacent oxygen-scavenging layers, which provide for protection and/or rigidity of the resultant package/container (Col. 5, lines 43-58; Col. 11, lines 14-68; Fig. 3-5; Col. 12, lines 8-30).

Furthermore, Cochran discloses in Example 7 on Col. 15, 33 gm preform bottles comprising 2% by weight of MXD6 and 100 ppm of cobalt; in Example 17 on Col. 17, a preform comprising 4% pf MXD6 and 100 ppm of cobalt neodecanoate; and in Table I on Col. 13, embodiments of the oxygen-scavenging composition comprising 200 ppm of cobalt.

However, Cochran does not *specifically* disclose using solid-stated polyamides for the oxygen-scavenging layer.

However, Pushee teaches that solid stating polymeric resins prior to injection molding causes a chain growth effectively removing undesired impurities used in or produced during the melt phase polymerization of the resin. (Col. 1, lines 30-40) Likewise, Pushee teaches that the intrinsic viscosity (I.V.) of the polymer resin may be increased by effectively solid stating the resin prior to injection molding thereby providing a bottle which has a higher orientation and a desired strength while using a minimal amount of resin due to the higher resin I.V. (Col. 1, lines 1-40)

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Therefore, it would have been obvious to a person skilled in the art at the time Applicants' claimed invention was made to solid state the scavenging polymer prior to forming Cochran's beverage bottle. One skilled in the art would have been motivated to do so in order to incorporate Pushee's teachings and attain a resultant beverage bottles provided with superior mechanical properties and yet are more cost-efficient to manufacture.

Although Cochran and Pushee do not specifically disclose the resultant container/packages to be transparent (i.e the containers having little or no haze), it is the Examiner's position that since Cochran and Pushee discloses the same exact multilayered film packages/containers as claimed by Applicant, then accordingly, said packages/containers must all inherently possess the same physical properties such as haze and transparency.

6. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Collette (US 5759653).

Applicant further limits the adjacent polymer layers to be polyethylene terephthalate (PET).

Collette discloses a transparent three-layered sidewall comprising inner and outer virgin-PET layers and an oxygen-scavenging composition core layer to be used in multilayer preforms and containers such as blow-molded recycled-PET beverage bottles; wherein the oxygen-scavenging composition comprises MXD-6 nylon (meta-xylene diamine with adipic acid) and a transition metal catalyst such as cobalt, cobalt oxide or cobalt powder. (Col. 1, lines 6-18; Col. 3,

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line 50 to Col. 4, line 35; Col. 6, line 39 to Col. 8, line 11 and Fig. 4-7; Col. 9, line 60 to Col. 10, line 60; Col. 13, lines 66-67; Col. 14, lines 37-38).

Particularly, Collette discloses a three-layered sidewall comprising inner/outer virgin PET layers and a core oxygen-scavenging layer comprising 2% by weight of MXD-6 with 200 ppm of the metal activator. (Col. 9, lines 60-67)

Moreover, Collette discloses an alternative five-layered structure comprising two intermediate oxygen scavenging layers further comprising a PET/MXD-6/cobalt blend comprising preferably 4-6 of the total preform weight which provides optimum barrier protection while maintaining transparency. (Col. 9, lines 24-38)

However, Collette does not specifically disclose solid stating the scavenging polymer prior to forming the oxygen-scavenging composition.

Pushee was discussed above in paragraph #5.

Therefore, it would have been obvious to a person skilled in the art at the time Applicants' claimed invention was made to solid state the scavenging polymer prior to forming Collette's beverage bottle. One skilled in the art would have been motivated to do so in order to incorporate Pushee's teachings and attain a resultant beverage bottle with superior mechanical properties and yet more cost-efficient to manufacture.

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***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John J. Figueroa whose telephone number is (703) 305-0582. The Examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 5:30 p.m. The Examiner can also be reached on alternate Fridays.

If the attempts to reach the Examiner are unsuccessful, the Examiner's supervisor, Ellis P. Robinson can be reached by dialing (703) 308-2364. The fax phone number for the organization where this application is assigned is (703) 305-5408.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group Receptionist whose phone number is (703) 308-0661.

jjf JJS

June 14, 2000

*Ellis P. Robinson*  
Ellis Robinson  
Supervisory Patent Examiner  
Technology Center 1700

## NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

The drawing(s) filed (insert date) 08/221,395 are:

A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

**1. DRAWINGS.** 37 CFR 1.84(a): Acceptable categories of drawings:

Black ink. Color.  
 Color drawings are not acceptable until petition is granted.  
 Fig(s) \_\_\_\_\_

Pencil and non black ink not permitted. Fig(s) \_\_\_\_\_

**2. PHOTOGRAPHS.** 37 CFR 1.84 (b)

1 full-tone set is required. Fig(s) \_\_\_\_\_  
 Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) \_\_\_\_\_  
 Poor quality (half-tone). Fig(s) \_\_\_\_\_

**3. TYPE OF PAPER.** 37 CFR 1.84(e)

Paper not flexible, strong, white, and durable.  
 Fig(s) \_\_\_\_\_  
 Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) 1-3  
 Mylar, velum paper is not acceptable (too thin).  
 Fig(s) \_\_\_\_\_

**4. SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:

21.0 cm by 29.7 cm (DIN size A4)  
 21.6 cm by 27.9 cm (8 1/2 x 11 inches)  
 All drawing sheets not the same size.  
 Sheet(s) \_\_\_\_\_

Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_

**5. MARGINS.** 37 CFR 1.84(g): Acceptable margins:

Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm  
 SIZE: A4 Size

Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  
 SIZE: 8 1/2 x 11

Margins not acceptable. Fig(s) \_\_\_\_\_  
 Top (T) \_\_\_\_\_ Left (L) \_\_\_\_\_  
 Right (R) \_\_\_\_\_ Bottom (B) \_\_\_\_\_

**6. VIEWS.** 37 CFR 1.84(h)

REMINDER: Specification may require revision to correspond to drawing changes.

Partial views. 37 CFR 1.84(h)(2)

Brackets needed to show figure as one entity.  
 Fig(s) \_\_\_\_\_  
 Views not labeled separately or properly.  
 Fig(s) \_\_\_\_\_

Enlarged view not labeled separately or properly.  
 Fig(s) \_\_\_\_\_

**7. SECTIONAL VIEWS.** 37 CFR 1.84 (h)(3)

Hatching not indicated for sectional portions of an object.  
 Fig(s) \_\_\_\_\_  
 Sectional designation should be noted with Arabic or Roman numbers. Fig(s) \_\_\_\_\_

**8. ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i)

Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_

**9. SCALE.** 37 CFR 1.84(k)

Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction.  
 Fig(s) \_\_\_\_\_

**10. CHARACTER OF LINES, NUMBERS, & LETTERS.**

37 CFR 1.84(i)

Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality).  
 Fig(s) 1-92

**11. SHADING.** 37 CFR 1.84(m)

Solid black areas pale. Fig(s) \_\_\_\_\_  
 Solid black shading not permitted. Fig(s) \_\_\_\_\_  
 Shade lines, pale, rough and blurred. Fig(s) \_\_\_\_\_

**12. NUMBERS, LETTERS, & REFERENCE CHARACTERS.**

37 CFR 1.84(p)

Numbers and reference characters not plain and legible.  
 Fig(s) \_\_\_\_\_

Figure legends are poor. Fig(s) \_\_\_\_\_

Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  
 Fig(s) \_\_\_\_\_

English alphabet not used. 37 CFR 1.84(p)(2)

Figs \_\_\_\_\_

Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)  
 Fig(s) \_\_\_\_\_

**13. LEAD LINES.** 37 CFR 1.84(q)

Lead lines cross each other. Fig(s) \_\_\_\_\_

Lead lines missing. Fig(s) \_\_\_\_\_

**14. NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(t)

Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) \_\_\_\_\_

**15. NUMBERING OF VIEWS.** 37 CFR 1.84(u)

Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_

**16. CORRECTIONS.** 37 CFR 1.84(w)

Corrections not made from prior PTO-948 dated \_\_\_\_\_

**17. DESIGN DRAWINGS.** 37 CFR 1.152

Surface shading shown not appropriate. Fig(s) \_\_\_\_\_  
 Solid black shading not used for color contrast.  
 Fig(s) \_\_\_\_\_

**COMMENTS**

FORM PTO-1449(Modified)

ATTY. DOCKET NO. C0762/7238

SERIAL NO. 09/241,598

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S  
INFORMATION DISCLOSURE STATEMENT

APPLICANT. Schmidt et al.

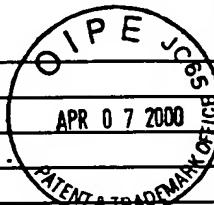
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FILING DATE February 2, 1999

GROUP 1772

## U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
52X		5,866,649	2/2/99	Hong et al.	524	538	6/7/95



## FOREIGN PATENT DOCUMENTS

		Doc. No. (11)	Pub. Date (43)	Country	Class	Sub Class	Translation Yes No
52X		EP 0520257 A2	30.12.92	Europe			
52X		EP 0507207 A2	07.10.92	Europe			
52X		EP 0301719 A1	01.02.89	Europe			
52X		EP 0380319 A1	01.08.90	Europe			
52X		WO 90/00504	25.01.90	PCT			
52X		WO 90/00578	25.01.90	PCT			
52X		WO 96/18685	20.06.96	PCT			
52X		WO 96/18686	20.06.96	PCT			

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U.S. PATENT & TRADEMARK OFFICE  
APR 17 2000  
MAIL ROOMOTHER ART  
(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)


\* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_, filed \_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant

ORM PTO-1449(Modified)

ATTY. DOCKET NO.: C0762/7238

SERIAL NO.: 09/241,598

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

APPLICANT: Steven L. Schmidt et al.

FILING DATE: 02/02/99

GROUP: 1772

## U.S. PATENT DOCUMENTS

Exam Init	Ref Des	Document No.	Date	Name	Class	Sub Class	FILING DATE If Appropriate
JF		Re 29340	08/02/77	Matsunami et al.	428	26	
		3,586,514	06/22/71	Vijlbrie	99	71	
		3,686,069	08/22/72	Winkler et al.	161	227	
		4,018,746	04/19/77	Brinkmann et al.	263	78	
		4,038,228	07/26/77	Taylor	428	27	
		4,048,361	09/13/77	Valyi	428	35	
		4,101,720	07/18/78	Taylor et al.	263	7	
		4,104,466	08/01/78	Tsuchida et al.	520	153	
		4,172,069	10/23/79	Cordes et al.	520	4375	
		4,198,792	04/22/80	Christensen et al.	521	55	
		4,206,100	06/03/80	Kyo et al.	260	22	
		4,237,034	12/02/80	Tomka et al.	260	12	
		4,261,473	04/14/81	Yamada et al.	215	15	
		4,398,642	08/16/83	Okudaira et al.	215	16	
		4,500,668	02/19/85	Shimizu et al.	524	428	
		4,501,781	02/26/85	Kushida et al.	428	35-7	
		4,702,966	10/27/87	Farrell et al.	428	5050	APR 17 2009
		4,728,549	03/01/88	Shimizu et al.	428	35-3	
		4,800,129	01/24/89	Deak et al.	428	4747	
		4,818,782	04/04/89	Bissot	524	4130	
		4,908,272	03/13/90	Harada et al.	428	4740	
		4,957,980	09/18/90	Kobayashi et al.	523	425	
		4,980,211	12/25/90	Kushida et al.	428	35-7	
		4,983,432	01/08/91	Bissot	428	35-7	
JF		5,021,515	06/04/91	Cochran et al.	523	371	
		5,028,462	07/02/91	Matlack et al.	428	35-7	
		5,034,252	07/23/91	Nilsson et al.	428	35-9	
		5,049,624	09/17/91	Adams et al.	523	371	
		5,068,136	11/26/91	Yoshida et al.	428	35-7	
		5,077,111	12/31/91	Collette	428	35-7	
		5,159,005	10/27/92	Frandsen et al.	524	413	
		5,194,478	03/16/93	Frandsen et al.	521	398	
		5,202,052	04/13/93	Zenner et al.	202	188.28	
		5,211,875	05/18/93	Speer et al.	202	188.78	
		5,239,016	08/24/93	Cochran et al.	523	371	
		5,246,753	09/21/93	Koyama et al.	428	35-7	
		5,281,360	01/25/94	Hong et al.	202	188.28	
		5,302,430	04/12/94	Ardechir et al.	421	33-7	
		5,310,497	05/10/94	Ve Speer et al.	528	289	

432992.1


 6/03

	5,314,987	05/24/94	Kim et al.	528	289	
	5,350,622	09/27/94	Speer et al.	428	21S	
	5,352,499	10/04/94	Willard	428	332	
	5,364,555	11/15/94	Zenner et al.	282	18.28	
	5,492,742	02/20/96	Zenner et al.	428	33.2	
	5,498,364	03/12/96	Speer et al.	282	188.28	
	5,529,833	06/25/96	Speer et al.	428	21S	
	5,627,239	05/06/97	Ching et al.	525	38.25	20
	5,639,815	06/17/97	Cochran et al.	524	480	RECEIVED
	5,641,825	06/24/97	Bacska et al.	524	398	
	5,660,761	08/26/97	Katsumoto et al.	52	188.28	7
	5,700,554	12/23/97	Speer et al.	428	220	200
	5,736,616	04/07/98	Ching et al.	525	380	
	5,759,653	06/02/98	Collette et al.	428	35.2	
	5,820,956	10/15/98	Hatakeyama et al.	428	38.2	

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FOREIGN PATENT DOCUMENTS

	Country & Doc. No. (11)	Pub. Date (43)		Class	Sub Class	Translation Yes No
	JP 57-185349	15.11.82	Toray Industries, Inc. <i>Transl. by</i>	—	—	X
	EP 083826 A1	20.07.83	American Can Co.	—	—	
	EP 367835 A1	16.05.90	Toyo Seikan Kaisha, Ltd.	—	—	
	EP 174265 A2	12.03.86	The Goodyear Tire & Rubber Co.	—	—	
	EP 186154 A2	02.07.86	Mitsubishi Gas Chemical Co., Inc.	—	—	
	EP 507207 A2	07.10.92	W.R. Grace & Co.-Conn.	—	—	
	EP 0527902B1	24.02.93	PLM AB	—	—	
	EP 0527903 B1	24.02.93	PLM AB	—	—	
	EP 0519616 A1	23.12.92	Chevron Research & Technology Co.	—	—	
	JP 58-197050	11.16.83	Toyobo Co., Ltd. (English Abstract)	—	—	X
	JP 58-160344	09.22.83	Toyo Boseki Kabushiki Kaisha (English abstract enclosed)	—	—	X

OTHER ART  
(Including Author, Title, Date, Pertinent Pages, Publication, Etc.)

M.L. Roney, "Active Packaging in Polymer Films," pp. 75-110

Kayumova et al., "Catalytic Properties of Polymers Containing Co(II) and Cu (II) In Liquid-Phase Oxidation of Ethyl Benzol, Kinetics And Catalysis, Vol. XXV, No. 6, 1984 (English translation enclosed)

*ABSTRACT ONLY*  
for JP

58-197050

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial in reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant

<b>Notice of References Cited</b>		Application No. 09/241,598	Applicant(s) Schmidt et al.
		Examiner John J. Figueroa	Group Art Unit 1772

**U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A	4,392,804	7/1983	PUSHEE et al.	425	174.8
B					
C					
D					
E					
F					
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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
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O						
P						
Q						
R						
S						
T						

**NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
U		
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